

**Jet Propulsion Laboratory**  
California Institute of Technology  
4800 Oak Grove Drive  
Pasadena, California 91109-8099



(818) 354-4321

August 13th 2003

Attention: Proposer

Subject: Request for Proposal (RFP) No. HFPR - 72503  
High Flow Pressure Regulator

The JPL Mars Exploration Program (MEP), Mars Technology Office is conducting design and development activities in preparation for the Mars Science Laboratory mission scheduled for launch in 2009. The current approach to this mission involves a Mars descent propulsion system capable of accommodating a payload greater than 600kg.

JPL invites your organization to submit a response to the enclosed RFP for the design, development, fabrication and test of a "High Flow" Helium Pressure Regulator (HFR). The goal of this effort is to develop a HFR and demonstrate the pressurization system requirements. The effort is broken down into two phases, phase 1 involves designing and fabricating a prototype HFR, phase two involves test and verification of the design validity. There is a high probability that the effort will be extended into a third phase for flight qualification verification and manufacture of one or more flight models.

The subcontract awarded as a result of this RFP will be funded incrementally by defined tasks and / or fiscal years. There are two primary parts to this RFP, the RFP instructions and their attachments, and the Specimen Contract with its exhibits.

Initial funding for this effort is anticipated but not guaranteed from the FY 04 Mars Focused Technology budget. Contract award pursuant to this RFP is contingent upon release of the FY 04 funds and the existence of a valid task order for this work under the JPL-NASA prime contract.

All material contained in the RFP will be posted on the JPL website <http://acquisition.jpl.nasa.gov/rfp/hfr>. Included on this website are the RFP, Specimen Contract, and Applicable Documents.

The undersigned JPL procurement representative must receive proposals no later than 3:00 p.m., local time, on September 12th, 2003. Questions concerning this RFP should be directed by email only to the undersigned at; [Geoffrey.A.Pomeroy@jpl.nasa.gov](mailto:Geoffrey.A.Pomeroy@jpl.nasa.gov). Questions received after 12 noon Pacific Time September 8<sup>th</sup> will not receive a response.

Sincerely,

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Geoffrey Pomeroy  
Subcontract Manager

Enclosures: RFP  
Specimen Contract, Exhibit 1 to the Specimen Contract  
JPL Forms as marked on JPL Form 2839